



## Inspector's Daily Report

	IDR Sheet	1	of	11	Sheets
Contract	Day				Date
C-7852	Thursday				August 12, 2010

DIARY - Including but not limited to: a report of the day's operations, time log (if applicable), orders given and received, discussions with contractor, and any applicable statements for the monthly estimate.

I arrived at the project site around 8:00 a.m. Brad Schut requested help marking crest dowel locations between Stations 1333+00 and 1333+50 because he was having difficulty locating top-of-bedrock. After inspection, I agreed with him that there was still significant overburden between these stations (Figure 1). I recommended that he use an excavator to expose the top-of-bedrock so the crest dowel locations could be marked.

At Tom Badger's request, I attempted to field locate test boring RKS-3508 (Sta. 13231+00 70 ft Left) in order to obtain its elevation and the current slope geometry near this area (i.e. hinge point & overburden thickness). I was not able to locate the test boring but I was able to photograph the existing slope (Figure 2). Also at Tom's request, I collected the existing bench elevations from the existing slope stakes between Stations 1323+00 and 1324+00. There are as follow:

<u>Station</u>	<u>Elevation</u>
1323+00	2599.2
1323+25	2600.4
1323+50	2601.6
1323+75	2605.1
1324+00	2606.6

At Steve Lowell's request, I checked the status of the crest dowel installation between Stations 1333+50 and 1335+00. I found that the previously located crest dowels had been drilled, installed, and grouted (Figure 3). Also at Steve's request, I inspected the recently exposed cut face between Stations 1318+50 and 1321+00 and obtained geologic structure measurements and looked for a possible flow boundary. From approximate Stations 1318+70 to 1318+85 I observed a possible flow boundary between 6 and 18 inches wide containing reddish brown soft rock with clay/silt seams and seeping ground water. This possible flow boundary dives beneath the existing bench near Station 1318+85. Between Station 1318+85 and 1321+00, I observed thin (1/16 inch) clay/silt seams between small (~3 inch) fractured blocks of basalt and seeping ground water (Figures 4-6).

At the request of the Project Office, I conducted a lift inspection between Station 1338+75 to 1339+40. A presplit blast occurred at this location yesterday evening. Although no production blasting occurred, the Contractor was able to excavate rock down to the approximate elevation of the first lift. The height of the exposed cut face was between 8 and 12 ft. My observations revealed that the last crest dowel installed on the slope in the vicinity of the blast was near Station 1338+75. The Contract calls for crest dowels to be



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placed to the approximate Station 1339+40. These crest dowels had not been installed prior to blasting in the cut. I observed large (5 to 10 ft in diameter) detached blocks of lapilli tuff resting along the rock slope crest and other areas along the cut face with smaller (<2 ft in diameter) unstable blocks and soil. The slope was dry and the remaining half casts were approximately parallel and about 30 inches apart (Figures 7 & 8). I took several measurements of geologic structure, several photographs of the slope, and asked Brad to have the excavator operator attempt to nudge the large unstable blocks located along the rock slope crest. The large, potentially unstable blocks located along the slope crest could not be moved with the excavator. I marked several locations for crest and spot dowels along the face of the cut (Figure 9) and I left the project site and headed for my hotel at approximately 6:30 p.m.

Later in the evening I downloaded my photographs and composed an e-mail to Tom Badger and Steve Lowell. My e-mail contained descriptions of the new cut slope between Stations 1338+75 and 1339+40, several photographs of the slope, and my geologic structural measurements.

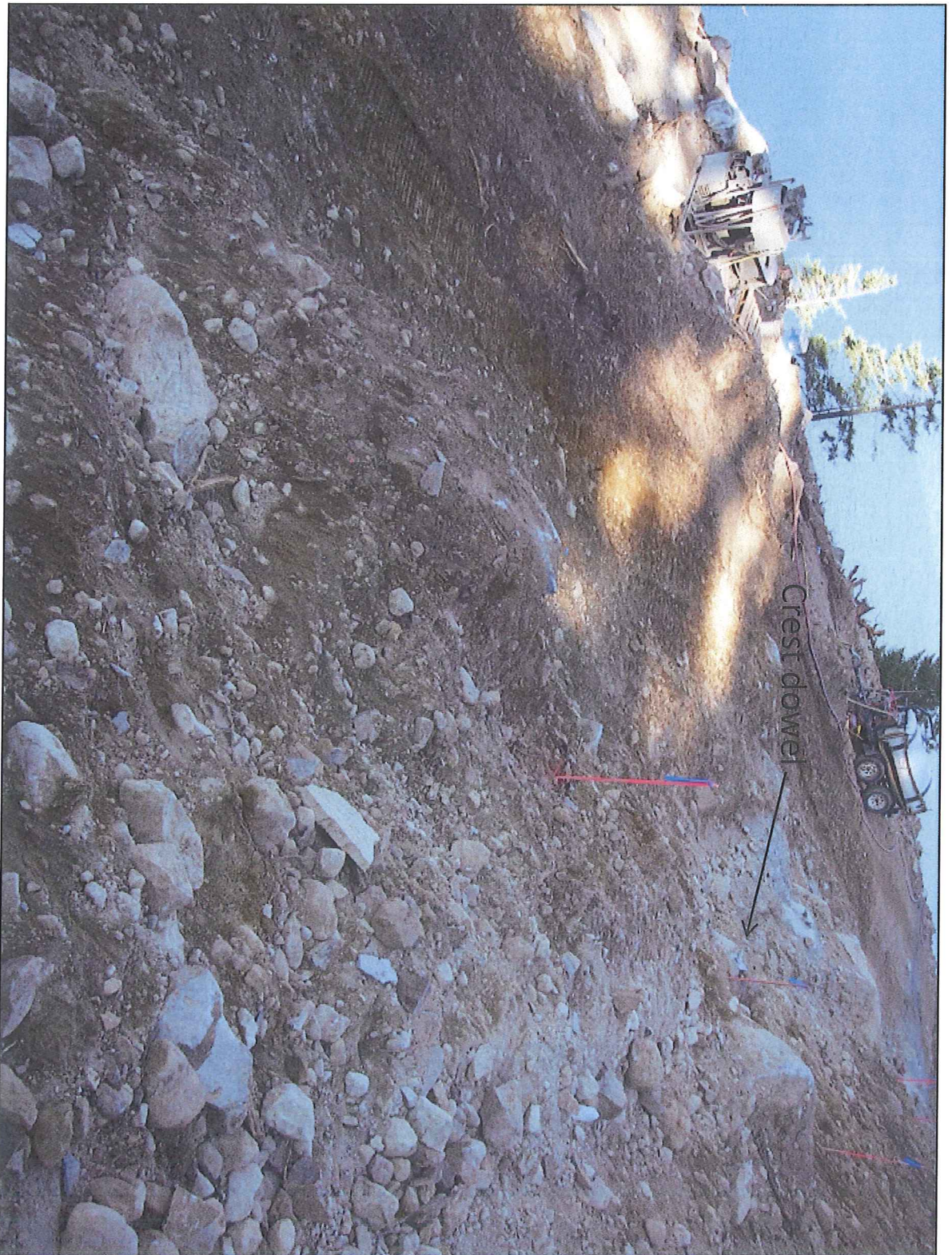


Figure 1: Looking west, Stations 1333+50 to 1333+00. Overburden/bedrock slope.



Figure 2: View of current slope near Station 1321+00 from below and from the along bench.



Figure 3: Crest and spot dowels installed near Station 1334+00.

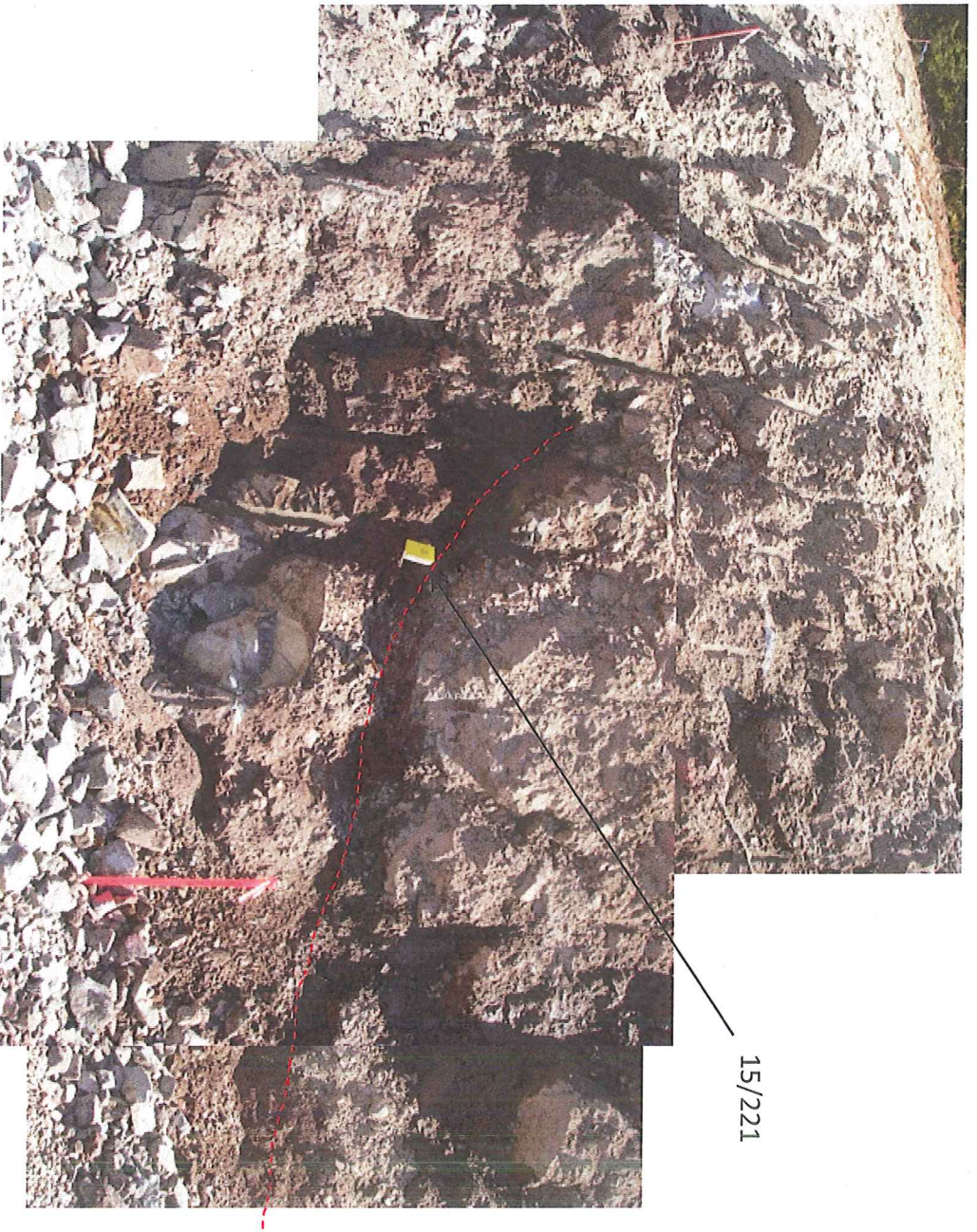


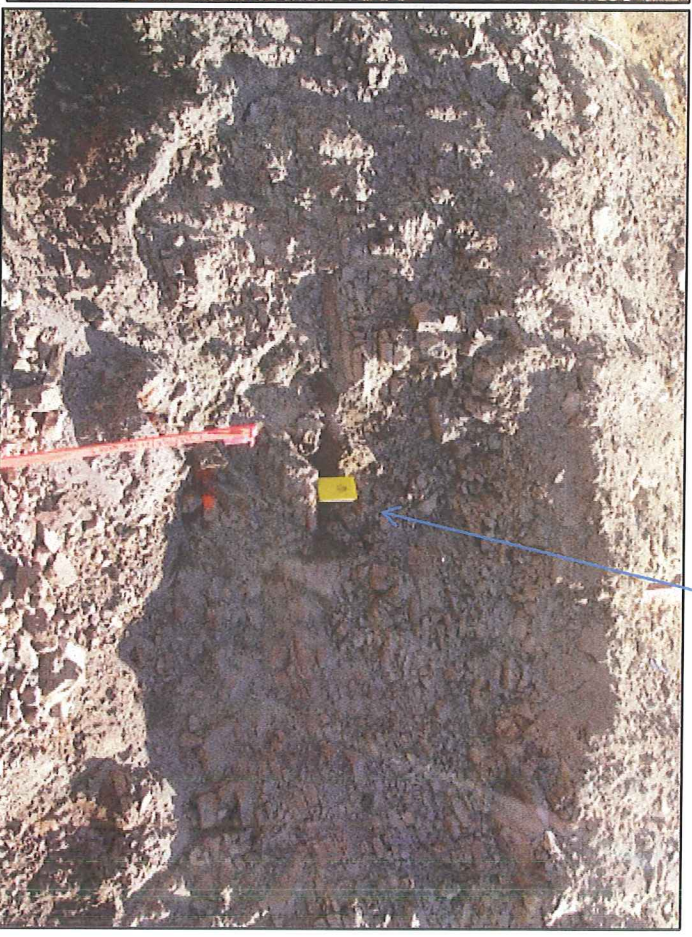
Figure 4: Sta. 1318+75: Possible flow boundary. The basaltic rock is soft reddish brown, weathered, with seeping water. Flow boundary is 6" to 18" thick. It dives below the bench near Sta. 1318+85 and rises upward near Sta. 1318+70.

15/178



Sta. 1319+50

23/075



Sta. 1319+75

Sta. 1319+00: No photo, but orientation is at 24/175

Between Stations 1320+00 to 1318+75 fracture apertures are tight to open with reddish brown clay/silt infilling and water.

Figure 5: Geologic structure and infilling, Stations 1319+00 to 1319+75

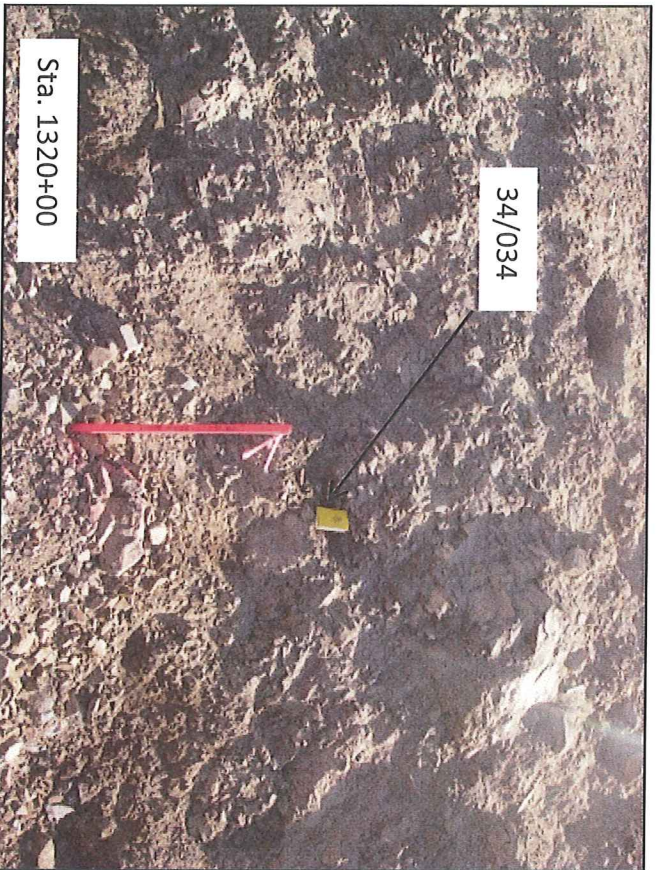
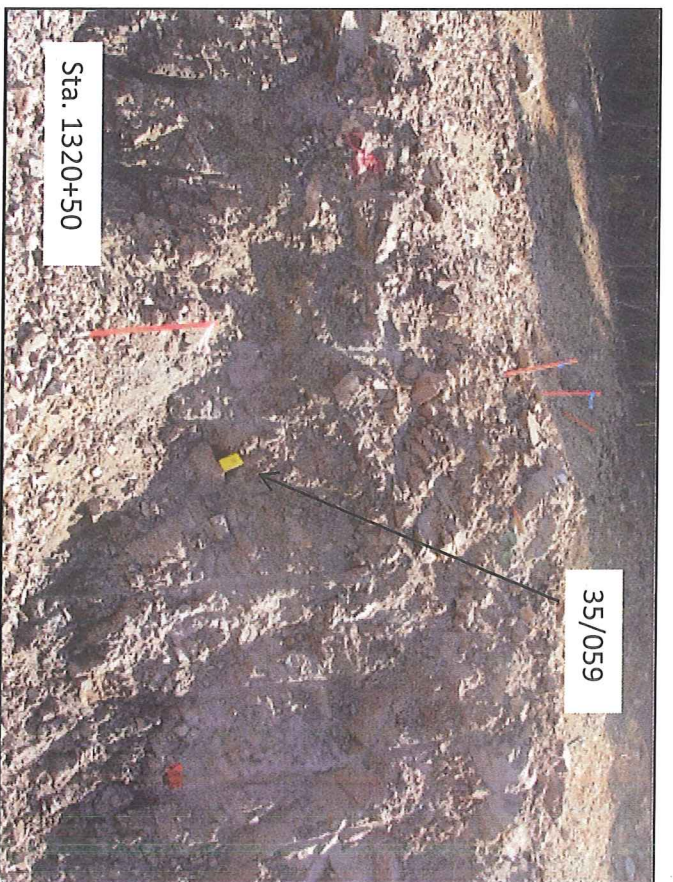
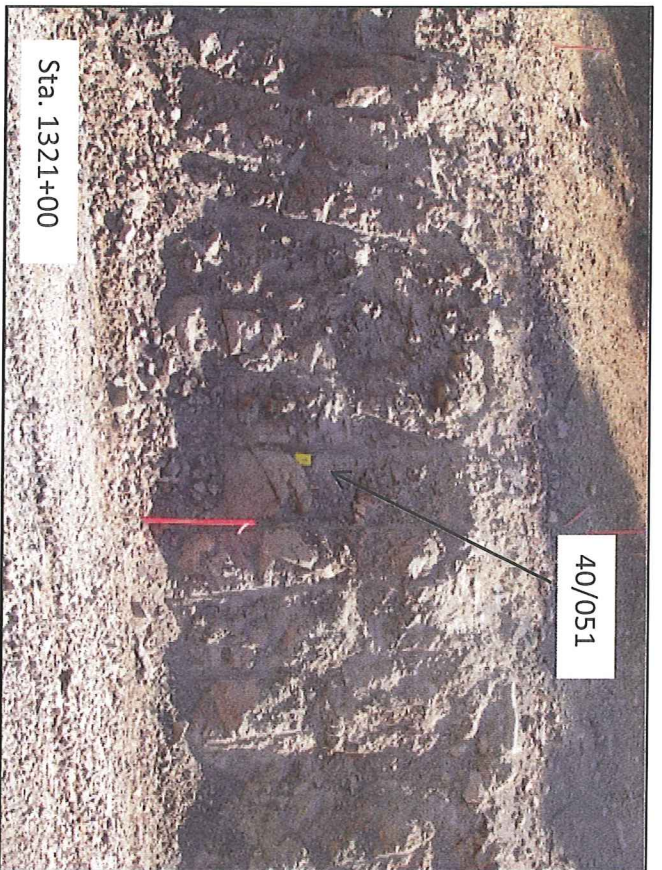


Figure 6: Geologic structure and infilling, Stations 1320+00 to 1321+00

Last crest dowel @ Sta. 1338+75

47/029

73/076. > 20 ft persistence  
back into slope. Possible  
toppling failure.

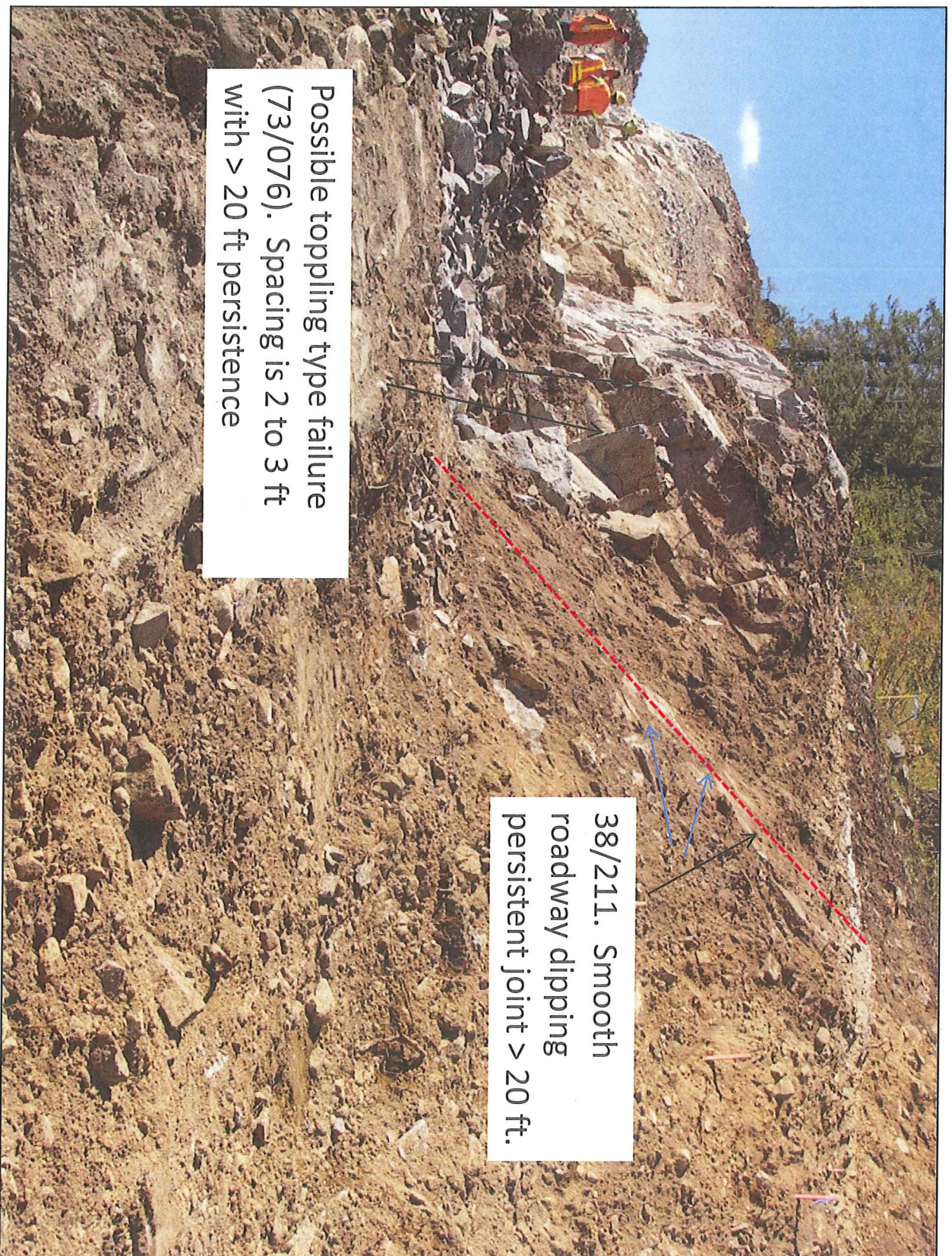
64/050

60/332

75/180 87/320



Figure 7: Slope cut face with geologic structural measurements and last crest dowel installed at Sta. 1338+75.



Possible toppling type failure  
(73/076). Spacing is 2 to 3 ft  
with > 20 ft persistence

38/211. Smooth  
roadway dipping  
persistent joint > 20 ft.

Figure 8: Possible toppling features and persistent roadway dipping plane.

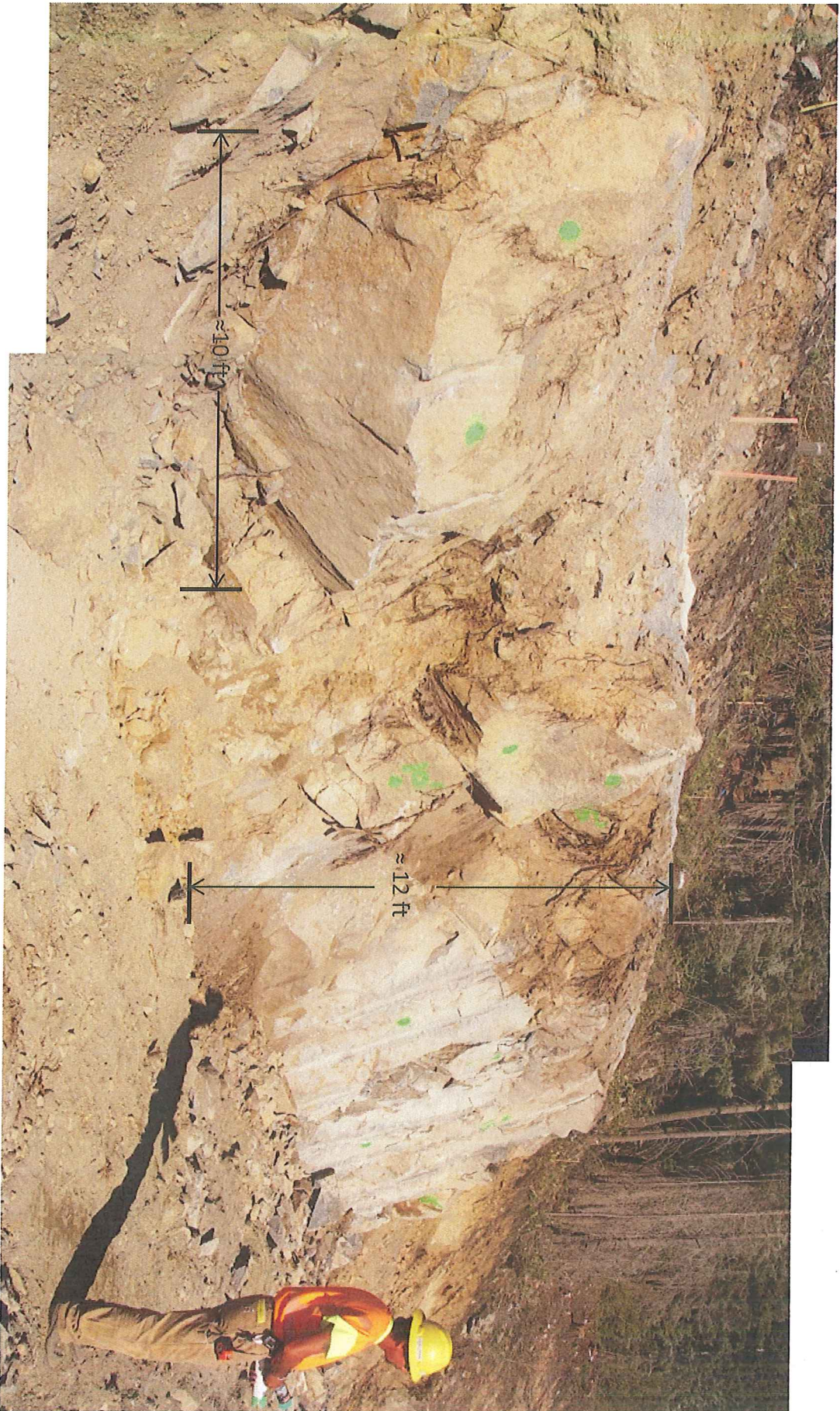


Figure 9: Preliminary stabilization, marked in the field between Sta. 1338+75 & 1339+40